

Operating Instructions.



■ Articos 32 HD/DR+

TV.



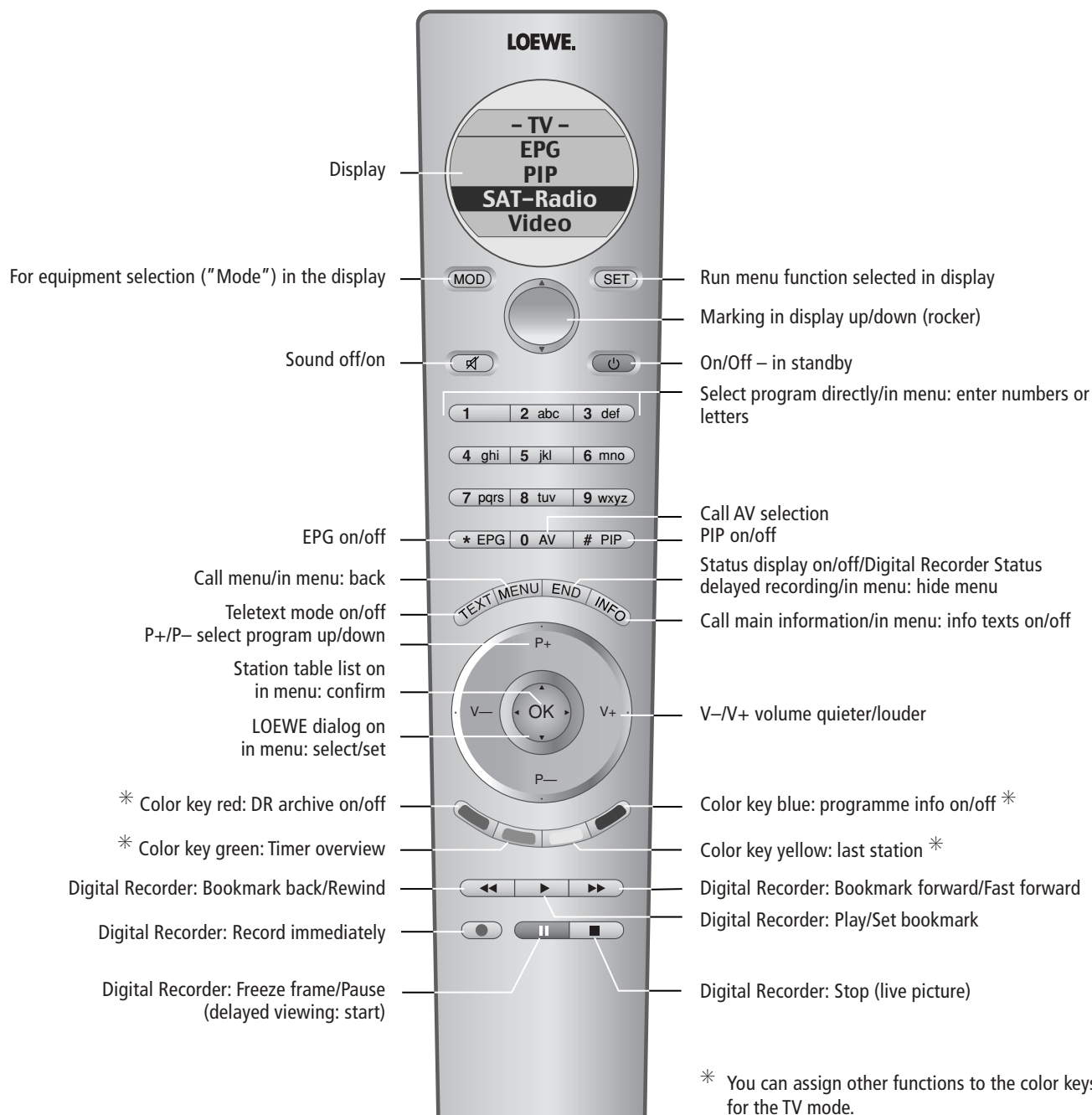
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LOEWE.

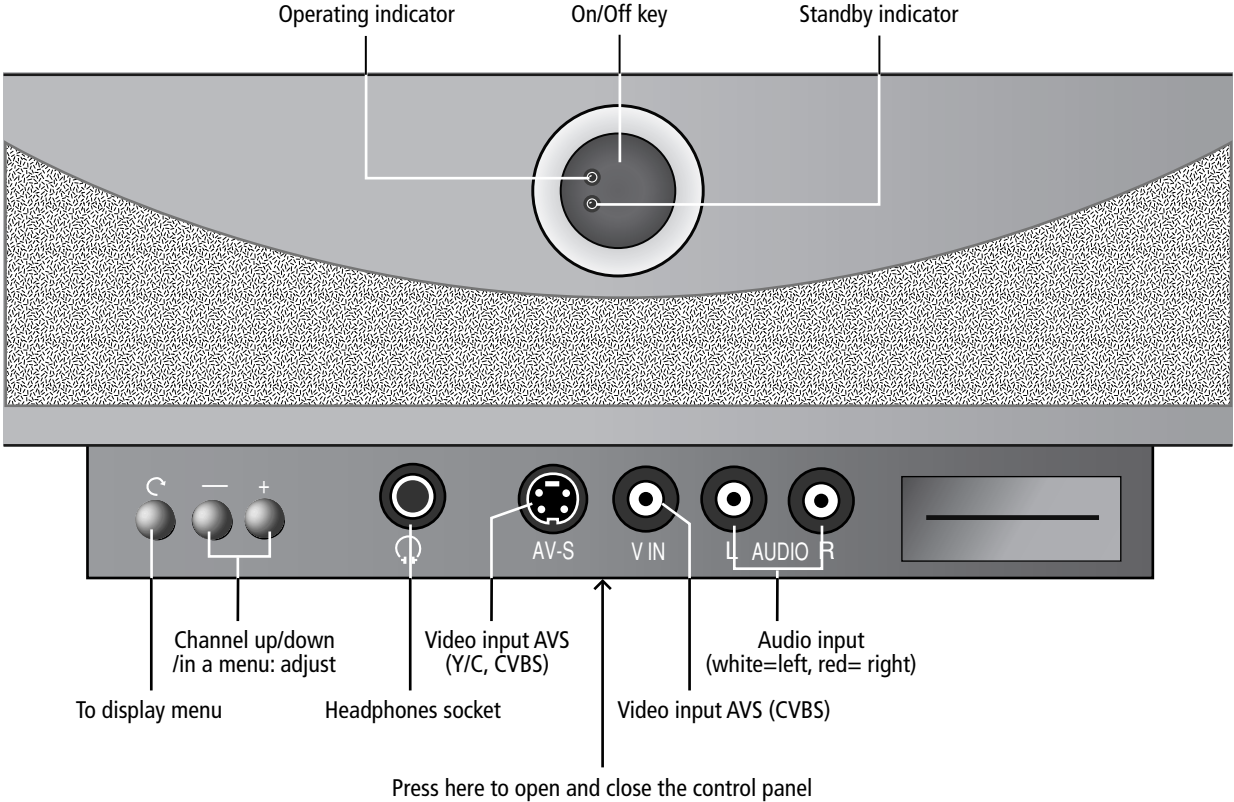
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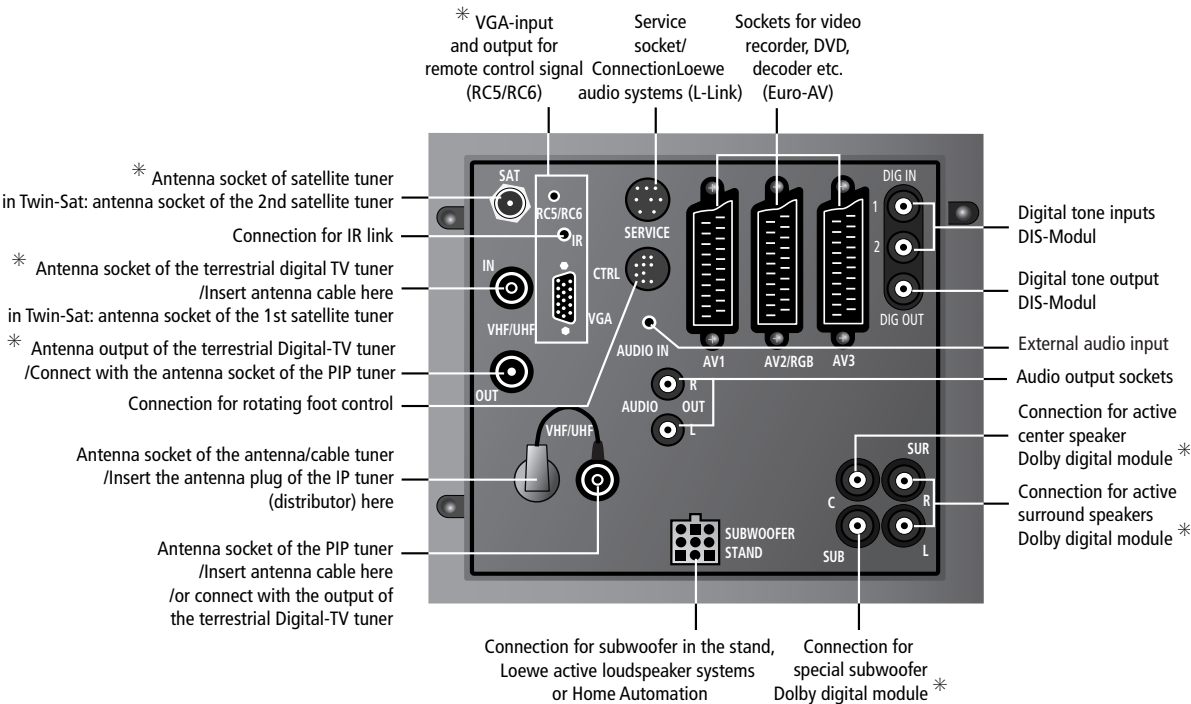
Remote control – TV functions



Control panel



Rear connections



* can be retrofitted

Welcome

Thank you,

for choosing a Loewe product.
We are very happy to have you as a customer.

Loewe combines high quality in technology, design and user friendliness. This applies equally for TV, video and accessories.

Neither the technology nor the design are an end in themselves but serve to give our customers pure watching and listening enjoyment.

We have not allowed ourselves to be led astray by short-lived fashion trends in the design. You have, after all, purchased a high-quality piece of equipment which you don't want to get tired of looking at tomorrow or the day after.

About the set

We have designed the TV set in such a way that it is easy to operate with menus. If you need information about how to operate it, just display the info texts with the i button, you will soon get a grasp of the relationships.

You will find the answers to many technical questions in the index of your TV set. If it's a matter of operating the TV, you can access a function directly from the index. This saves you from having to read through detailed operating instructions and is the reason why this operating manual you are reading only explains the most important operating steps.

With the remote control, you can operate three Loewe units, this TV, a Loewe video recorder and a Loewe DVD player.

TV equipment

This operating manual describes the maximum equipment.

The illustrated menu contents may vary depending on the TV equipment.

Operation of the Digital Recorder and the DIS module are described in separate operating manuals.

You can find out what equipment your TV has in the main information – Technical spec. of TV set.

Setup

Have the contrast filter panel fitted to the front of the set by your dealer. Assembly instructions are enclosed with the panel.

The On/Off switch is combined in one unit with the display.

The control panel is integrated in the base of the set underneath the power switch and display unit. To move the control panel out, press it at the bottom. This unlocks and drops it down. The buttons and connections are now accessible. To close again, press the control panel up until it snaps in.

Please note that the feet of the TV set could leave marks on soft wood furniture (e.g. deal, pine, fir etc.) due to the weight and moving the set about.

The plastic material of the feet contains softeners which could in some cases etch the surfaces of furniture.

In such cases you should place a firm underlay about the same size as the base of the TV set underneath it.

Please also read and observe the safety instructions on the following pages.

Make sure no bright light or sunlight falls on the screen and impairs the picture by reflections.

Cleaning

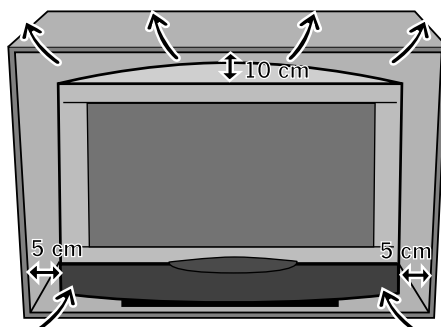
Clean the TV set and the remote control only using with only a damp, soft, clean cloth (never use aggressive or abrasive cleaning agents).

For your own safety

For your own safety and in order to avoid unnecessarily damaging your TV set, please read and observe the following safety instructions:

- This TV set is designed exclusively for receiving and reproducing audio and visual (AV) signals.
- It is designed for the home or office and may not be used in rooms with high humidity (e.g. bathroom, sauna) or a high concentration of dust (e.g. workshops). If the unit is used in the open air ensure that it is protected against moisture (rain, dripping or splashing water, or dew). Do not place containers filled with water, such as vases, on the TV set. High moisture and dust concentrations produce creep currents in the set which can lead to danger of electric shock or fire. The manufacturer's warranty is only valid for use of the TV set in the specified permissible environment.
- This set may only be connected to a power supply with the voltage and frequency specified on the rating plate using the enclosed power cable. The wrong voltages can damage the set.
- If the set is moved from a cold environment to a warm room, condensation forms on all parts of the set. Moisture produces creep currents in the set which can cause a fire. In this case, you should leave the set for a reasonable time to acclimatize (when the condensation on the screen has evaporated) before switching it on.

- Like every piece of electronic equipment, your TV needs air for cooling. Obstructing the air supply to the set can cause fires. The air vents on the back of the TV set must always be kept free. Do not leave newspapers or cloths lying on the TV set. The air supply is also impaired when the TV set is placed on a blanket or a thick pile carpet.

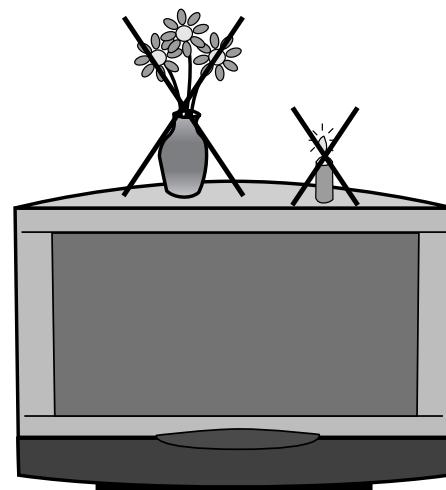


If the TV set is placed in a cabinet or on a shelf, at least 5 cm clearance at the sides and at least 10 cm at the top must be left to allow air to circulate.

Stand the TV set in a place where it is not exposed to direct sunlight or additional heating from radiators.

- Magnetic fields influence the picture quality of the TV set. Therefore, do not place loudspeakers or other magnetic sources immediately next to the TV set.

- Avoid dropping metal objects, needles, paper clips, liquids, wax or similar into the air vents at the back of the set. This causes short circuiting of the set and could start a fire. If anything should get inside the set, switch it off immediately, pull out the plug and call the after-sales service to check it.

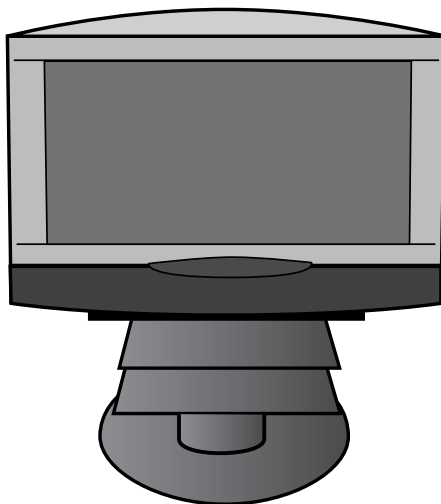


Do not place vases filled with water, lighted candles etc. on the top of the TV set.

For your own safety

- You should never attempt to remove the rear panel of the TV yourself. The set operates with high voltages which could be fatal. Leave repairs and servicing of your TV set to authorized TV technicians.
- Due to the picture tube, TV sets have their center of gravity fairly near to the front. The TV set therefore has a tendency to tip forward relatively easily which could cause injury to persons.
Only stand the TV set on a level, firm base. The set must stand on all feet. The TV should not overhang particularly when it is placed in a cabinet or on a shelf.
If the TV is placed on a stand, makes sure this is larger than the surface area of the base of the TV.

When using turntables and drawer shelves, make sure they have a sufficient load capacity.



We recommend you to use only original parts, e.g. Loewe racks and stands.

If the TV set is placed on a console with castors, move the console carefully because the console and the TV could tip over. Consoles with castors may considerably reduce the stability of the sets placed on them so only use consoles specially designed and approved for the TV. Never allow children to handle the TV set unsupervised.

Do not allow children to play close to the TV set, they could knock, push or pull it from the stand and injure someone.

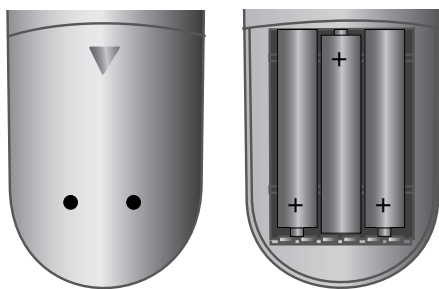
- Do not place the TV anywhere where it may be exposed to vibrations because this can lead to overloading of materials.
- Do not leave the TV on unsupervised.
- Pull out the antenna and mains plugs during a thunderstorm. Surge voltages from lighting strikes can damage the set both through the antenna system and the mains. You should also pull out the antenna and mains plugs during long periods of absence.
- The mains plug of the TV must be easily accessible so that it can be disconnected from the mains quickly at any time.
- Lay the power cable so that it cannot be damaged. The power cable may not be kinked or laid over sharp edges, and may not be walked over or exposed to chemicals; the latter applies for the entire TV set. A power cable with defective insulation can lead to electric shocks and is a fire risk.
- When you pull out the mains plug, do not tug the cable but hold the housing of the plug. The cables in the mains plug could be damaged and cause a short circuit the next time it is plugged in.

Initial installation

Remote control

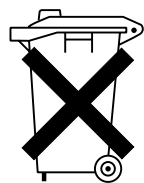
Batteries

To insert or change the batteries, press the point marked by an embossed arrow. Push the cover of the battery compartment down and remove it. Insert the batteries of the alkaline manganese type LR 03 (AAA) with the correct polarity (+/-).



Then push the cover back on. If you are inserting batteries in the remote control for the first time or changing the batteries you will see the language selection for the remote control in the display. Select German or English with the rocker. Press the **SET** button to confirm your selection. The display shows the "TV" menu, the remote control is set for operating the TV.

Note on disposal of batteries:



The original batteries do not contain any pollutants such as cadmium, lead and mercury. Used batteries do not belong in the domestic waste. They must be taken to the appropriate collection points according to the national laws. Ask your dealer.

Connection

Main

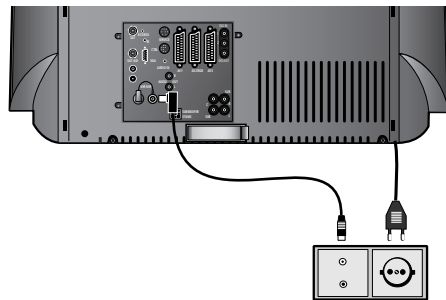
Connect the TV set to a 230V/50–60 Hertz outlet.

Antennas

Connect your antenna or cable system to the antenna socket of the PIP tuner.

Plug the antenna plug protruding from above the PIP tuner into the antenna socket of the VHF/UHF tuner.

If your TV set is equipped with a DVB-T module, connect your antenna or cable systems to the top socket of the DVB-T module (IN) and connect the bottom socket (OUT) to the antenna input of the PIP tuner. If equipped with one or two satellite tuners, connect the SAT antennae to the SAT sockets (see figure on page 5).



Switching on

The display and the On/Off switch are combined in one unit.



Press the On/Off button so that it is pressed in.

Initial installation

Automatic programming of the TV set is started the first time you switch it on. Follow the menus.

First you have to select the menu language for your set. Then you specify which antenna you have connected to your TV and in what country you are using it. Then you start the station search. The TV set searches for, stores and sorts all the stations which your antenna system receives. You then see a list of the stored stations in which you can mark your favorites. Finally log in your video recorders, decoders, Loewe audio system and Home Automation with the connection wizard and connect these to the TV set according to the illustrated connection plan.



Select the settings with the arrows on the ring...



....confirm the settings with **OK**. You then move on to the next menu...



...press this button if you want information about the settings.

You can repeat initial installation at any time, e.g. after moving house. Call the index in the main information (i button). Then select the item "Repeat initial installation". Then start "Initial installation" with **OK**.

Daily handling

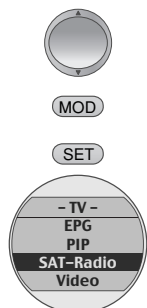
Remote control – Overview

You can operate various Loewe equipment and other manufactures with the RC2 remote control.

In addition you can operate combinations of equipment, e.g. this TV and a DVD player or VCR. If the TV mode is selected you operate the Digital Recorder of your TV set with the six buttons for the drive function.

Making the display visible

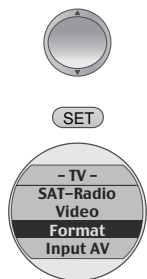
The display is switched off a few seconds after last using the remote control to prolong the life of the batteries.



Switch on the display by pressing the **rocker**, **MOD** or **SET** once.

The display is then switched on with illumination. The first line shows the selected device or in the case of combinations the name of the main device and to the right the name of the device which is being operated with the drive functions.

General information about operation with the remote control display



If the display is switched on, mark the desired function with the **rocker**.

Perform the function with the **SET** button.

The function is switched on or off. In some cases the function setting is changed by repeated pressing of the **SET** button or a sub-menu is opened.

Menu functions in TV

EPG

Call the electronic program guide of the TV set. Press the **SET** button again, the EPG is hidden. EPG can also be called and hidden with the *** EPG** button.

PIP

Call/hide the picture in picture function of the TV set. PIP can also be called and hidden with the **# PIP** button.

SAT radio

Switch the radio mode of the TV set on/off. Prerequisite: Your TV is equipped with a satellite tuner.

Video

Call or hide the video control bar.

Format

Call the selection for setting the picture format. Select the picture format by repeated pressing of the **SET** button.

AV input

Call the AV selection for playing connected equipment (e.g. VCR, camcorder or DVD player). Select the device by repeatedly pressing the **SET** button. The AV selection can also be made with the **0 AV** button.

Picture

Show/hide the picture menu. You can set the TV picture with the help of the picture menu. The Picture menu can also be called by the TV menu – Picture.

Sound

Show/hide the Sound menu. You can set the TV sound with the help of the Sound menu. The sound menu can also be called by the TV menu – Sound.

Sound mode

Call the sound mode settings of the connected Loewe DVD-Preceiver.

Timer (not for RC software 1.x)

Call the timer overview of the TV set.

The following HMM menu items can be activated for selection as of RC software 2.x. Since this set is equipped with the Digital Recorder, the online module cannot be retrofitted so that you will not need these functions.

HMM sound

Play the sound of the built-in HMM module. Home Multi Media is not retrofittable in this set.

HMM window

Switch over pages when several Internet pages are displayed at the same time. Home Multi Media is not retrofittable in this set.

HMM-PIP (only in RC software 1.x)

PIP display of the TV program in HMM mode. Home Multi Media is not retrofittable in this set.

HMM on/off

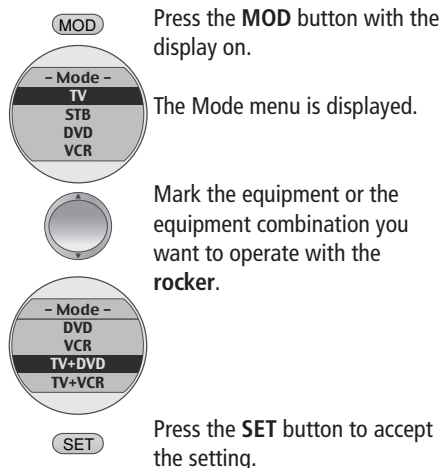
Switch the Home Multi Media mode on/off. Home Multi Media is not retrofittable in this set.

Daily handling

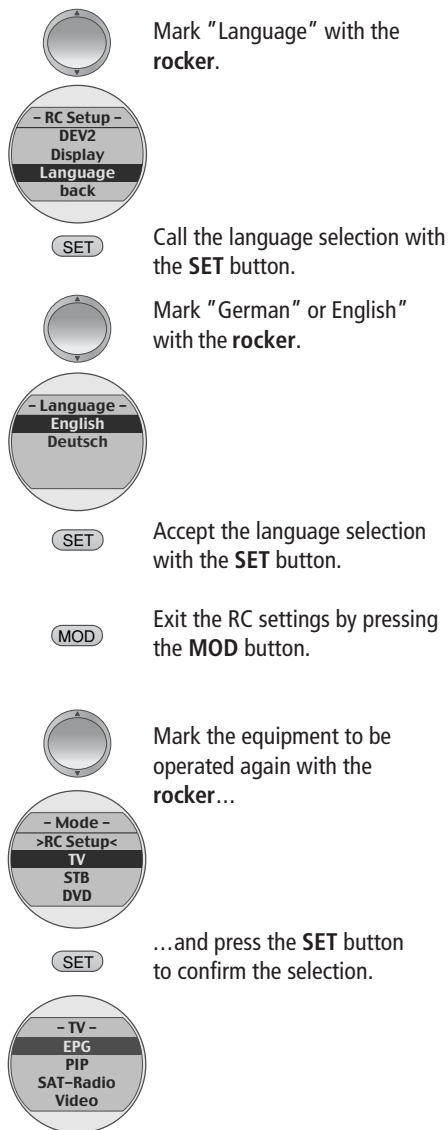
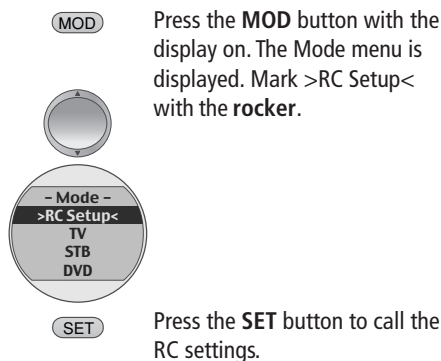
Setting the remote control

Setting the mode of operation (mode)

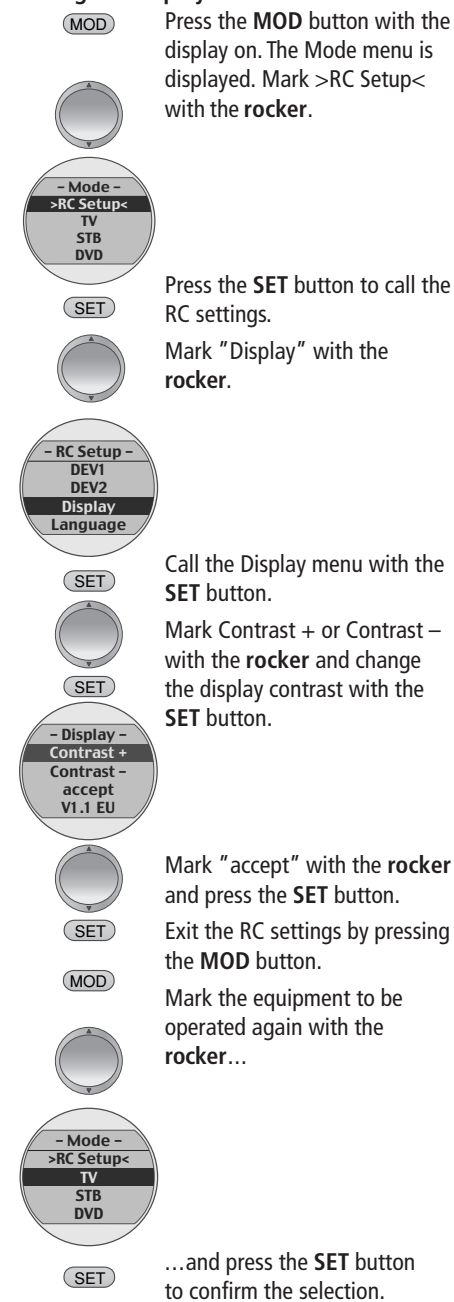
You can operate various equipment from Loewe and other manufacturers with this remote control. In the ex-factory state Loewe equipment is set for TV, VCD, DVD, DVD-Preceiver 8116DT (DVD/Audio), Certos (DEV1, DEV2) which you can operate directly. The d-box common in Germany is set for the Set Top Box (STB). More information on page 23.



Setting the menu language of the remote control



Setting the display contrast



Daily handling

Switching on/off

Your TV set is equipped with an eco-standby power supply unit. The power consumption drops to low power in standby mode. If you want to save even more energy, switch the set off with the On/Off switch. However, please note that EPG data are then lost and timer recordings programmed on the Digital Recorder set will not be carried out. However, please note that EPG data will be lost and programmed timer recordings for the Digital Recorder will not be performed.



If the TV is switched on, you can switch it off with the blue On/Off button on the remote control. The red standby LED on the set lights up. If the green (blue) LED also lights, a timer recording is in progress on the VCR or built-in digital recorder, EPG data is being acquired or radio mode without screen display is active.



From standby it is best to switch back on with the blue On/Off button or with a numeric key (station 0 – 9). The green (blue) operating LED then lights up.



When you switch on the TV with OK, you see the station table and can choose a station.

The display and the On/Off switch are combined in one unit.



None of the indicators lights up when you switch off the TV set with the On/Off button on the set.



Switch on the TV set with the On/Off button on the set when it is switched off.

Changing channels

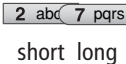


Channels up/down (only favorite stations if these are shown in the station table).

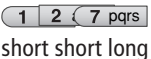
With the numeric keys on the remote control
The set has a dynamic memory with 220 (with DVB 1470) memory slots. If up to 9 stations are stored, you only need to enter one number, up to 99 two numbers, up to 999 three numbers and above 999 four numbers (please look in the station table to find out how many stations have been stored).



1-digit stations
Keep the button 0 – 9 pressed for one second, the channel then changes immediately. Or press the button 0 – 9 briefly, the channel then changes after 2 seconds (immediately when up to 9 stations are stored).



2-digit stations
Keep the second numeric key pressed for one second, the channel then changes immediately. Or press both numeric keys briefly, the channel then changes after 2 seconds (immediately when up to 99 stations are stored).



3-digit stations
Keep the third numeric key pressed for one second, the channel then changes immediately. Or press the three numeric keys briefly, the channel then changes after 2 seconds (immediately when up to 999 stations are stored).



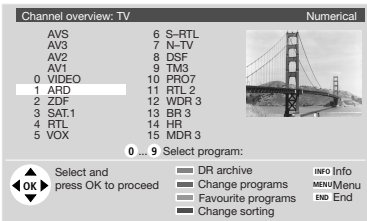
4-digit stations
Press the four numeric keys briefly, the channel then changes immediately.

Depending on how many stations have been stored, you can place one or more zeros in front of the number and select for example station 7 = 07 or 007 or 0007.

With the station table



Call the station table with OK



Mark the station (the marked station is shown in the PIP picture)



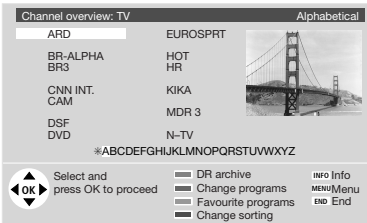
Mark with numeric keys



Call the marked station



Sort alphabetically/numerically (blue button)



Display favorite stations only

Call Audio/Video programs – AV selection

for playing AV equipment (see also page 22).

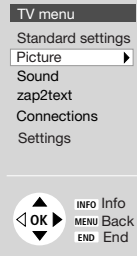


Select AV socket or VIDEO for VCR station.

Daily handling

General menu operation

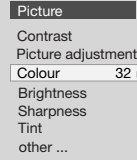
With the TV and picture menus, we show you how to navigate within the menus. Which buttons you can use for operation is shown at the bottom of the appropriate menu.



Call the TV menu

Mark (white field)

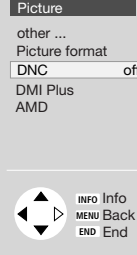
Call the menu with OK or ►



Grey menu items cannot be selected

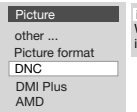
Set (setting value and bar)

Mark other menu items



Select (frame)


Show/hide info texts



Back to the previous menu level


Hide all menus

Adjusting the sound



Adjust the volume

Volume 36

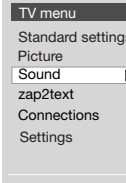


Mute

Sound off; Sound on: press button again or adjust volume

Sound off Sound on

Other sound settings:

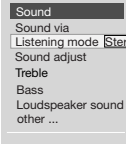


Call TV menu

Mark "Sound"

Call sound functions

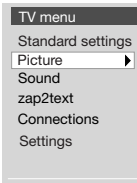
TMark sound function



Set/ select

Sound settings: Sound via the loudspeakers of the TV set or another system. Sound adjust, treble, bass and balance. Sound select for loudspeakers and headphones, AV output sound. Volume of the headphones, automatic volume and max. volume.

Adjusting the picture

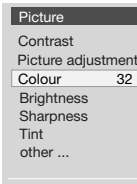


Call the TV menu

Mark "Picture"

Call picture functions

Select picture settings



Mark picture function

Set/ select

Picture settings: contrast, picture adjustment, colour, brightness, focus, colour tone, picture format, noise reduction (DNC), movement compensation (DMI), automatic picture size adaptation (AMD) and rotate picture.

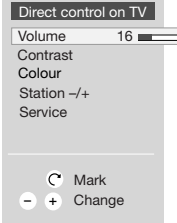
Operation on the TV set

Changing channels on the TV set

+ Channel up

- Channel down

Volume, contrast and color



Press the function button until the desired function is marked

More volume, contrast or color

Less volume, contrast or color





Modes of operation

TV mode

In initial installation and daily operation, the TV set is in TV mode. This is also the case when none of the other modes of operation such as EPG, Teletext, PIP, Video or Radio is selected. Every one of these modes of operation has a menu which you can call with the **MENU**-button and with some color button assignments.

Function of the color buttons in TV mode

You can assign the functions of the four color buttons yourself. The following functions are set at the factory:

-  red: call DR archive
-  green: call timer overview
-  yellow: call last viewed station
-  blue: call station info

You can assign other functions to the buttons in the TV menu "Settings" – "Function keys".


Status display



Show/hide status

Clock	20:15
1 ARD	Stereo

Main information



Call main information

Main information

Autom. channel search




Connections

Explanation of the remote control

Index

Technical spec. of TV set

Select control level

Select and call up with OK

INFO Info

MENU Back

END End

The explanation of the remote control

shows the function of every button in different modes of operation of the TV set and the remote control.

The **index** answers many questions regarding all aspects of the TV. If it is a question about the operation, you have direct access to the operating function from the index.

Loewe TV sets are supplied in different models with different equipment. You can find out what equipment your TV has under the menu item "Technical spec. of the TV set".

When you have made all the settings and connections, you can switch over to "Simplified control" using "Select Mode". Then the "Settings" and "Connections" can no longer be launched in all modes of operation menus. Switch "Simplified control" back off when you want to make settings.

TV menu



Launch the TV menu

TV menu

Standard settings

Picture

Sound

zap2text

Connections

Settings

Standard values

You can save the setting for picture and sound you have made in this menu and launch them again later.

Connections

You will find information about this in the chapter "Logging in and connecting AV equipment" on page 21.

zap2text

Some stations use this service. If teletext pages are referred to during a program, the TV set saves and/or displays this page number. You call the teletext page with the **TEXT** button from the display during the program or from this menu.

Some **settings** in the TV menu:

Child lock

Use the child lock if you want to prevent your children watching after a certain time, once or daily, all or certain programs.

On-screen displays

You can define duration and position of the displays, the content of the program and status display and activate or deactivate zap2text as a display.

Timer functions

You can have your TV switch on and off at specific times or have yourself reminded by a signal tone.

Time and date

When you receive teletext, the TV records the right date and time settings. The time serves as information for timer recordings, timer functions and EPG. If you do not receive teletext you should set the date and time and not switch the TV off with the mains button as the settings will then be lost.

Language

If "your" menu language is not set, you have to select the "Language" menu in a language you cannot understand:

Press the **MENU**-button (TV menu), mark the last menu item (settings), press the **OK** button and mark the last menu item (Language) under "other ..." and press the **OK** button.

Now select the right language and confirm with **OK**.

Modes of operation

Picture in Picture (PIP)

Standard PIP functions:

In standard PIP, a PIP picture is displayed in the current TV picture. The frame round the PIP picture is initially green in standard PIP.

PIP Show/hide PIP picture

PIP picture as still frame

The frame around the PIP picture must be green. If it is not, press the green button. Press the red button to freeze the PIP picture. Press again – moving picture.

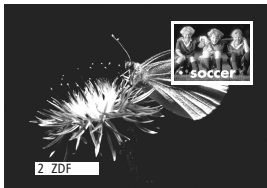
Changing the station of the PIP picture

The frame around the PIP picture must be green. If not, press the green button. Then select the station as normal.



Changing the station of the TV picture

The frame around the PIP picture must be white. If it is not, press the green button. Then select the station as normal.



Station scan



The frame around the PIP picture must be green. If it is not, press the green button.



Start the station scan with the blue button. The PIP frame turns blue.

The programs now change automatically. Stop the program scan with the blue button. The PIP frame turns green again.

Changing PIP picture/TV picture



The frame around the PIP picture must be green. If it is not, press the green button. Change the pictures with the yellow button.



Position of the PIP picture



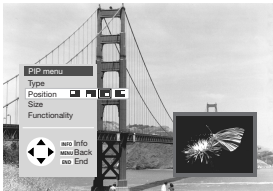
Call the PIP menu with the MENU-button.



Select "Position"



Select the symbols for the position



Hide the PIP menu

Resolution of the PIP picture



In the PIP menu, select "Resolution"



Set to "large" or "small".

Split screen



In the PIP menu, select "Type"



Select the symbol for Split Screen.



Hide the PIP menu

The picture on the right is the PIP picture and has no sound. The vertical line represents the colour of the frame around the PIP picture.

Setting "iPIP"

Switch on PIP, call the PIP menu with the MENU button.



Mark "Functionality"



Select "iPIP"



Hide menu

iPIP function:

In iPIP the TV picture currently displayed becomes the PIP picture. Select another program for the TV picture and keep your eye on the PIP picture. In this way you can temporarily "ban" commercials or parts of programs to the PIP picture. In iPIP, the frame round the PIP picture is orange.



PIP picture on/off

The PIP picture becomes a TV picture again when you switch off PIP.

Modes of operation

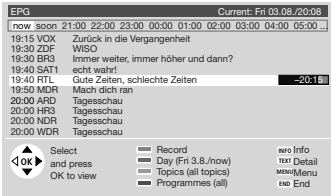
EPG mode

EPG is the electronic station guide for TV programs. With this system, you can easily find the programs that interest you (sorted according to time, day, topics and programs). You can memorize programs and program recordings.

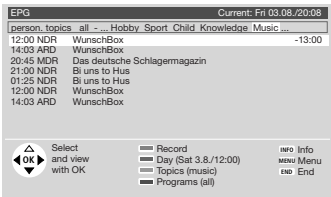
A wizard is activated the first time you use EPG (not with DVB) which guides you through the necessary settings. Then run the data acquisition (see page 17).

Using the EPG

 EPG Switch EPG on/off

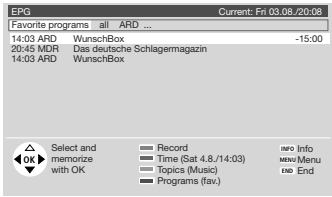


The first line is framed initially in green. The **green frame** stands for **time and date**, with the green button you switch between time and day or, if the frame has a different color, back to the green frame. With the arrow buttons **◀ ▶** you select: now, later, the time or day for starting stations. The list of stations below is updated accordingly. With the buttons **▼ ▲** you mark a station you want to watch (now running), memorize or record.



The frame turns yellow when you press the yellow button. The **yellow frame** means you can **select topics**. With the arrow buttons **◀ ▶** you choose between personal topics, all topics

and the individual main topics such as Film, News, Show, Music etc. The list of stations below is updated accordingly. With the **▼ ▲** buttons, you mark a station you want to watch (a program currently running), memorize or record.



The frame turns blue when you press the blue button. The **blue frame** signifies **station selection**. Use the arrow buttons **◀ ▶** to choose between your favourite stations, all stations or the station just set. You can select another individual station by moving to "..." with **▶**, marking a station in the list and storing it with **OK**.

The respective current settings are shown next to the operating notes for the color buttons.

Direct input of time

You can also enter the time directly with the numeric keys of the keypad. After entering the first digit, the time is displayed first next to the symbol of the green button by asterisks and is then replaced by the entered numbers, e.g. 2100. If the entered time has already passed, its entry is used for the following day.

Watch or memorize a station

You memorize the station marked with the **▼ ▲** buttons by pressing the **OK**-button. The symbol **+** is placed in front of the title of the program. The TV switches over to this station when the program starts.

Programming a VCR or Digital Recorder (DR) recording

You prepare the program marked with the **▼ ▲** buttons for recording by pressing the red button. For "Timer recording" select DR (Digital Recorder") or VCR and whether a single recording is to be made or a serial is to be recorded. A red dot is displayed in front of the program title. If a program is already marked by a red dot, you can delete the timer data again (the red dot disappears).

Calling detailed information

If detailed information about the selected station is available, you will see the **TEXT**-button displayed additionally. You can call the detailed information with this button.

Other **functions** in the EPG menu:

List of memorized programs

You will find the stations you have memorized in a list, also DVB radio stations.

Switch on TV at memo

You can have the TV switched on automatically from standby at the time of the memorized program. If you are not in at the time, a safety prompt makes sure the TV switches off again after 5 minutes.

Indicate/start memorized station

If the TV is already on when the memorized program starts you can have the start of the program indicated or the TV switched over immediately.

Short info lines

Short infos are broadcast for many programs. Set how many lines this information should have or switch the short info lines off.

EPG entry

If you want to start EPG operation, you can retain your last settings for topic and program selection or start with all topics and all programs.

Modes of operation

EPG settings

If you want to change the provider or want to have other programs evaluated, you can do this in the EPG menu.

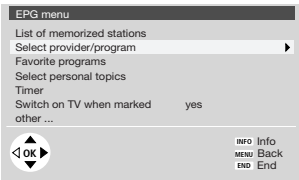
Provider search



EPG on/off



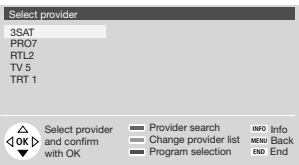
Call EPG menu



Mark "Provider/Select station"



Call



Start provider search (green button). This may take some time.



Mark the provider

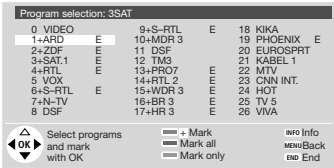


Save the provider

This is followed by a station search and a list of TV stations is displayed which transmit data. Move on to the provider selection with the **OK**-button. If the stations offered are what you want, move on to the station selection with the blue button.

Selecting stations for EPG

Select the stations here for which information is to be collected.



Stations marked by + are favorite stations. The provider supplies information for stations marked by E (terrestrial, cable and analog satellites) and D (digital), these are already marked (blue letters).



Mark the station/Remove the marking



red: Only mark favorite stations



green: Mark all stations



yellow: Only mark this station



Back to the EPG menu

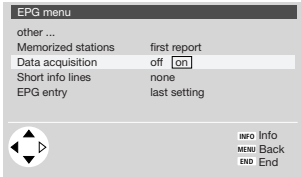
Switching data acquisition on/off



Mark "Data acquisition" in the EPG menu under "other"



Select data acquisition off/on



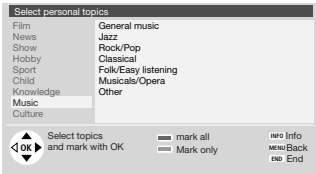
If, for example, you cannot receive any EPG providers and no DVB is installed in the TV set, you should switch off the data acquisition.

Performing data acquisition

The data must be collected first after these settings or every time the TV is switched off. To do this, select the program which you have defined as a provider and leave it switched on for about one hour or switch the TV set to standby mode. The green (blue) LED lights up in addition to the red LED after about two minutes. Data acquisition takes about one hour, in sets with a DVB module a little longer. The data are automatically collected between 2 and 5 in the morning when the TV is switched off to standby.

Defining personal topics

You will find the programs that interest you faster when you define your personal topics. Mark "Select personal topics" in the EPG menu and put together your list of personal topics.



SAT radio mode

Switch the SAT radio mode on and off by marking "SAT Radio" in the TV menu with the **rocker** using the remote control and pressing **SET**. If at least one satellite tuner and possibly a DVB module are installed in your TV set, you will be able to receive radio stations. If none of these additional modules is installed, you can only select the audio inputs and play back through these with the station table or the **▼ ▲** buttons.

Modes of operation

Teletext mode

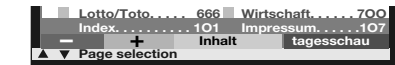
Teletext transmits information such as News, Weather, Sport, Program Previews and Subtitles.



Many stations use the TOP operating system, some use FLOF (e.g. CNN). Your TV supports both these systems. The pages are divided into general topics and topics. After switching on the teletext, up to 3500 pages are stored for fast access.

Selecting pages with the colored buttons

The colored bars (in TOP) or the colored writing (in FLOF) in the last line but one show you which colored buttons to use to scroll to general topics and topics.



red: back to previously viewed page (not with FLOF)

green: forward to next page (not with FLOF)

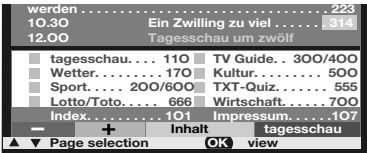
yellow: to the next topic (only in TOP and FLOF)

blue: to the next topic (only in TOP and FLOF)

More functions for page selection



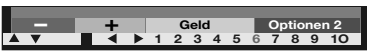
Mark a specified page number on the page (Page Catching)



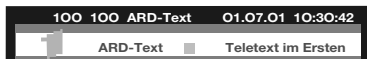
Launch



Scrolling in stored sub-pages. In the bottom line you will see which sub-pages you can already launch.



Launch contents page 100



The TOP table is a general list of teletext. You can only launch the table on channels which use the TOP operating system.



Launch the TOP table



Mark a general topic



Select the Topics column



Mark menu items



Display page

1 2 7 pgrs Enter the page number directly

Displaying teletext pages



Stop self-turning pages (HOLD)








zoom: top half – bottom half – normal size



TV picture on/off (Split text)



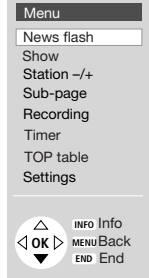
Programming timer recordings

If the remote control is set to "TV" (no equipment combination), you call the program pages of the current station in teletext mode with the Record button . Select the program you want to record with   and confirm with . For "Timer recording" select DR (Digital Recorder) or VCR and whether a single recording is to be made or a serial is to be recorded. Confirm with .

Teletext menu



Launch teletext menu




Here you will find functions such as "New message", "Reveal" hidden information, switch to other, enter 4-digit sub-page number directly and programme video timer recordings via teletext. In the settings you will find menus to define the preview pages, subtitle pages and personal teletext pages.

LOEWE Dialog

The TV has simplified operation for the most important functions, the LOEWE Dialog. A few key clicks give you the information you want.

You should have already made a few settings before using the LOEWE Dialog to provide selection possibilities.

Sie sollten die auf Seite 17 beschriebenen You should have made the EPG settings described on page 17 and run the EPG data entry. The Digital Recorder archive should also already contain recordings. You should have defined a few personal teletext pages. In all these cases you then have a useful selection. With NTCs reception the main information is displayed instead of the LOEWE Dialog. You call the LOEWE Dialog with the arrow buttons on the remote control when no menu is displayed.



Press one of the arrow buttons
▲ ▼ ◀ ▶ for about 1 second.

LOEWE Dialog 21:12
other ... 09.09.03


Frontal 21
21:00 - 21:45 ZDF

Wunderschöner Norden
21:00 - 21:45 N3

Rundschau-Magazin
21:00 - 21:15 BR

Quaks & Co
21:00 - 21:45 WDR

other ...



TV now Archive Radio Teletext

OK Select and view with OK

EPG Record

INFO Main info End End

The TV program just selected is shown as a small picture (the live picture). The blue bar shows you the selectable functions. The function on the left is active. You can move the function you want to perform to the left or right with the arrow buttons ◀ ▶ .

Above the selected function you see a selection which you can navigate with the arrow buttons ▲ ▼ and view with OK.

The selection of programs currently running acquired by the EPG system is displayed in **TV-now**. If no EPG is received, a **programme info** of the station currently being received is displayed.


With **Archive** – the selection of recorded programs in the DR archive is displayed. If no Digital Recorder is installed, **Index** is displayed in place of the archive, that is the index with the selection of initial letters.

With **Radio** – the selection of programs of the satellite radio is displayed. If you have switched over to Sat radio mode, LOEWE Dialog cannot be called. If you do not receive satellite radio (no satellite tuner/DVD module), **Favorites** is displayed in place of Radio, that is favorite programs you have defined.

With **Teletext** – the selection of personal teletext pages is displayed.

This is how you select with the example of the "TV now" function:
Mark the desired station with the arrow buttons ▲ ▼ , the name turns blue. Other stations can be displayed with "others..." . Press the OK button to watch the station.

You can call LOEWE Dialog with the ▲ ▼ ◀ ▶ buttons so that the desired function is ready for selection on the left:



Call TV now ▲



Call Archive ▼

LOEWE Dialog 21:12
other ... 09.09.03

Shimla 02.09.03 ZDF

AVO-Session Basel 2002 03.09.03 3Sat

Disco 05.09.03 3Sat

Quaks & Co 06.09.03 WDR

other ...



Archive Radio Teletext TV-now

OK Select and view with OK

DR-Archive

INFO Main info End End



Call Teletext ◀

LOEWE Dialog 21:12
09.09.03

ARD-BOERSE 731 ARD

WETTER 604 BR

NACHRICHT 112 ZDF

other ...



Teletext TV now Archive Radio

OK Press OK for more details

TEXT Teletext

INFO Main info End End



Call Radio ▶

LOEWE Dialog 21:12
09.09.03

other ...

124 Bayern 3

125 RTL

126 Bayern 2

127 Melodie

128 NDR 2

129 NDR1

130 HR3

131 WDR3

132 Antenne

other ...



Radio Teletext TV now Archive

OK Select and press OK to switch

Channel overview

INFO Main info End End

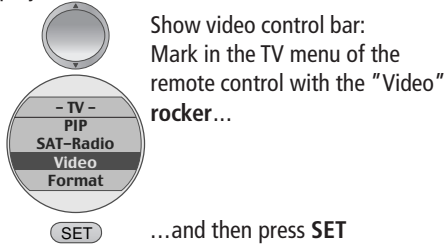
Operation of additional equipment

Video mode

You can operate Loewe video recorders and DVD players with the video control bars even if they are hidden. The VCR's must be connected to the Euro AV sockets (Scart) and logged in under the "Connections" menu.

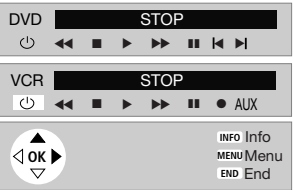
Digital Link must be switched on on the Loewe video recorder. Only then can you use the control bar. You also need Digital Link for timer recordings of satellite programs controlled by the TV set.

You can display up to two control bars but they are only displayed by logged in VCR's and DVD players.



Show video control bar:
Mark in the TV menu of the remote control with the "Video" rocker...

...and then press SET



Select the video control bar if several VCR's or a DVD player are connected.

Select function



Switch VCR/DVD on/off



Select video input (Euro-AV socket) for the VCR



Rewind (only for VCR) or Scan in rewind



Stop (STOP)



Playback (PLAY)



Fast forward (only for VCR) or Scan in fast forward



Pause (PAUSE)



Next chapter (only for DVD)



Previous chapter (only for DVD)



Record



Perform selected function

When you start a recording, the program you have just selected is recorded. You cannot switch over to another channel, it is locked. You can only switch over when the recording has finished.

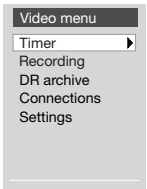
Exceptions:

1. You have installed several tuners (not PIP tuners) in the TV set, then you can watch another channel with the second tuner.
2. You can also watch the signal via an AV connection (e.g. DVD player or a second VCR).
3. In a VCR with Digital Link Plus the VCR tuner is used for the recording (not for satellite programs).

Video menu



Show the Video menu



The Video menu provides you with the following options:

You can change and delete timer data or program new recordings in the "Timer" menu. The "Record" menu gives you the option for timer programming by EPG, teletext or manually.

You can call the archive list with "DR Archive" if a Digital Recorder is built in.

In the "Connections" menu you can log other AV equipment on or off. In the "Digital Link Plus transfer" menu the station data of the TV set (not satellite stations) are transmitted to the Digital Link Plus VCR.

In the Settings menu you can enter the record lead and follow on time and serial recording tolerance.

Digital Link Plus VCRs have the possibility for transferring the station data from the TV set to the VCR via the Euro-AV cable (not for satellite stations). Every time you change the station memory of the TV, you are asked whether you want to make a data transfer.

The receiver unit of the VCR is always used for recording with a Digital Link Plus video recorder (not satellite stations) and the tuner of the TV set is available for watching TV.

Loewe VCRs also have **Digital Link**, a system for controlling Loewe VCRs via the Euro-AV cable. If the Loewe VCR only has Digital Link, the TV tuner is used for recording. If you have installed your Loewe VCR in a concealed place, you can operate the Loewe VCR with the remote control. Operation with the control bar also works with Digital Link.

Digital Link must be switched on on the video recorder.

Only use fully wired Euro-AV cables, otherwise Digital Link or Digital Link Plus will not work.

Operating additional equipment

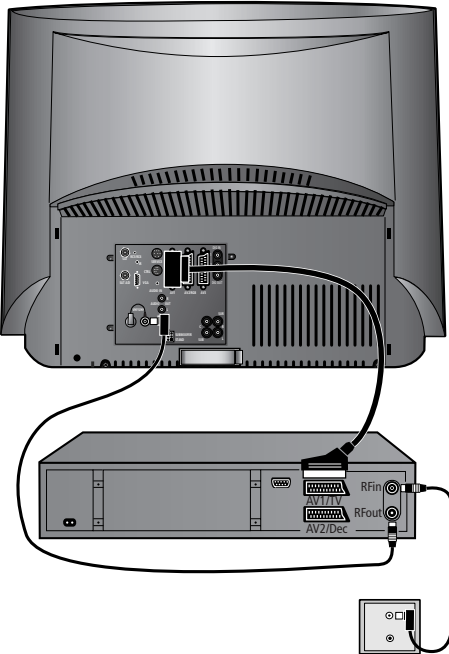
Logging in equipment

You have already logged in and connected all connected devices (video recorders, camcorders, DVD player, DVD recorder, Loewe audio system, Pay-TV decoders, Loewe home automation, door intercom) with the connection wizard when you put it into operation for the first time. If you want to connect further or different devices, you have to call the connection wizard in the TV menu – "Connections".

Connecting VCR equipment

In addition to the connection via the Euro-AV socket, you also have to connect the antenna (only for antenna or cable systems) through the VCR to the TV set. The antenna signal is then available both to the tuner in the VCR and the TV tuner.

If a DVB-T module is installed, connect the VCR to the IN socket of this module.



Search for and store the VCR station (if there is no Euro AV cable)

Switch on the test station on the VCR or insert a recorded tape and start playback.

Then call program 0 on the TV set (set ex-factory to channel 36). Select the first menu item (VCR) in the AV selection list.

To prevent "normal" TV stations being found in the search, pull out the antenna plug from the antenna input of the VCR temporarily (the plug attached to the cable to the antenna system).

TV menu

Standard settings

Picture

Sound

zap2text

Connections

Settings

Settings

Stations

AV settings

Child lock

On-screen displays

Timer functions

Time and date

other ...

Stations

Automatic search

Manual adjustment

Sort

Delete

Enter/change name

Preferred stations

Manual adjustment

Range

Channel

Frequency

Name

TV stand.

Col. st.

Manual adjustment

Range

Channel

Frequency

Name

TV stand.

Col. st.

Call the TV menu

Mark "Settings"

Call

Mark "Stations"

Call

Mark "Manual setting"

Call

Mark "Range" and Select "UHF"

Mark "Channel"

Enter channel 30

Manual adjustment

Range

Channel

Frequency

Name

TV stand.

Col. st.

0-9:Entry

Search

Store

info Info

Menu Back

End End

Search for channel (blue button)

When the station is found:

Store (red button)

A list of the stored stations is displayed

Store

0 VIDEO

1 ARD

2 ZDF

3 SAT.1

4 RTL

5 VOX

6 S-RTL

7 N-TV

8 DSF

9 S-RTL

10 N-TV

11 DSF

12 TM3

13 PRO7

14 RTL 2

15 WDR 3

16 BR 3

17 HR 3

18 KIKI

19 PHOENIX

20 EUROSPRT

21 KABEL 1

22 MTV

23 CNN INT.

24 HOT

25 TV 5

26 VIVA

Insert station

Overwrite station

info Info

Menu Back

End End

Overwrite program (program 0 marked)

Hide menus

Plug the antenna plug back into the VCR. If you now get interference because a TV station is transmitting on the same channel as the VCR station, you have to change the transmitting station on the VCR (see operating instructions of the VCR) and search for the VCR station on the TV again.

Operating additional equipment

Video playback

In order to see the VCR picture on your TV and hear its sound you have several possibilities:

1. You can use the Euro-AV sockets on the TV set and on the VCR. This is the best option of all – good picture and sound quality. If you are playing back from a VCR with Digital Link Plus, the VCR picture is shown on the current station slot. If you are playing back from a standard VCR, DVD player or camcorder, select the AV socket to which the video signal is connected in the AV selection list or the station table.

- Video recorders emit a switching voltage during playback which the TV set can decode (can be activated for every VCR in the connection wizard or set Settings – AV Settings – Allow switching voltage to “Yes” in the TV menu). Then the VCR picture is shown on the current station slot as in Digital Link Plus VCR’s.
2. You use the antenna connection between the VCR and the TV set. The sound is only broadcast in mono. To do this, select the first menu item, e.g. VCR, in the AV selection list.

Calling an AV program in the AV selection list



Call AV selection list



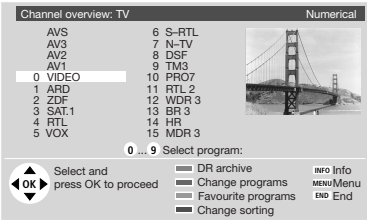
Select AV socket or VIDEO for VCR station.

Now you will see the playback from the connected AV unit.

Calling an AV in the station table



Call the station table



In the numeric sorting you will always find the AV devices at the top of the list without station numbers.



Mark the AV socket

Now you will see the playback from the connected AV unit.

IR Link

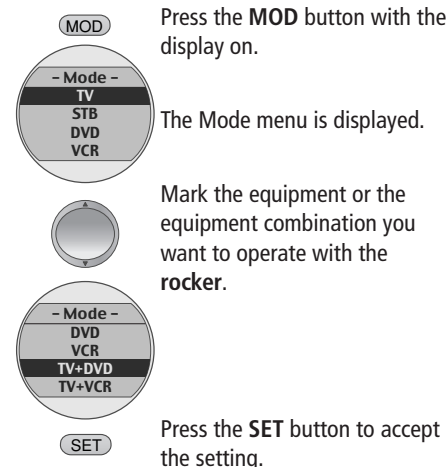
Your TV set has a socket for an IR Link (IR) and a cable with a jack and IR emitting diode is also supplied.

This enables you to control most other remotely controlled devices, such as a concealed d-Box or a video from a different manufacturer, by using the TV set’s remote control. Insert the jack of the infrared emitting diode cable into the IR socket on the back of your TV. The infrared emitting diode on the end of this cable must be placed in front of the concealed device. For transmission, the TV must be switched on. Burl tape is supplied to help when laying the cables. The burl tape is self-adhesive; remove the protective film. Affix the burl tape on the wall of the shelf or cabinet and press the cable into the burl tape. The burl tape can be split into several pieces using a knife. To operate the concealed video recorder, point the infrared remote control at the TV set.

Operating additional equipment

Operating other Loewe equipment with the RC2 remote control

You can operate various Loewe equipment with this remote control. In the ex-factory state Loewe equipment is set for TV, VCD, DVD, DVD-Preceiver 8116DT (DVD/Audio), Certos (DEV1, DEV2) which you can operate directly. The d-box common in Germany is set for the Set Top Box (STB).



In addition you can operate the equipment combination, e.g. this TV and a DVD player or VCR. The bottom six buttons take over drive functions for the DVD player or VCR.

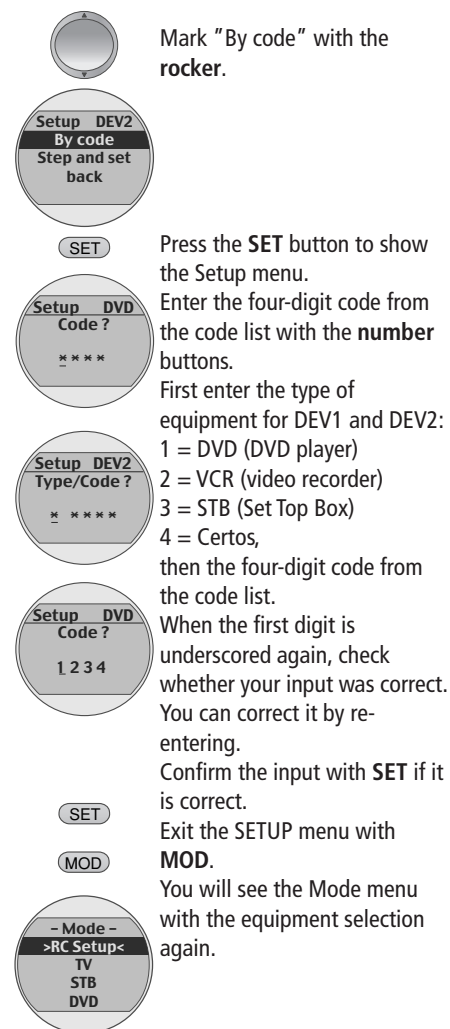
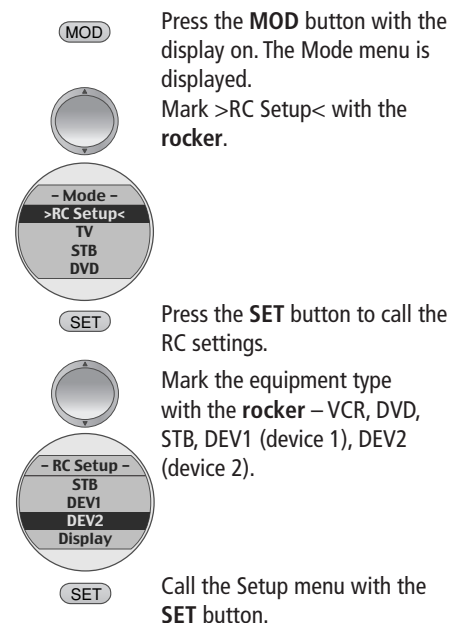
Switching over the remote control for operating equipment of other manufacturers

You can switch over the remote control for VCRs, DVD players and Set Top Boxes if the infrared code of the equipment type is listed in the code list or is in the code memory of the RC2.

Switching over is done on the one hand by entering a four-digit code and on the other hand the remote control suggests codes which you can test on the switched on equipment. If you cannot find the equipment in the code list, try to switch over the remote control with "Step and set".

Switching over the remote control – with code input

Look for the code number of your equipment in the code list. The list is sorted according to equipment type – DVD, VCR, STB – and alphabetically according to manufacturer. You will find one or more code numbers next to the manufacturer name.



Select the device you have just programmed to test the functionality. If the device cannot be operated or is difficult to operate, repeat the code input with the next code from the list. If no other codes are specified, try a code suggested by the remote control.

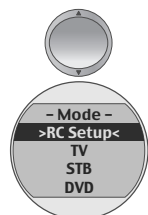
Operating additional equipment

Switching over the remote control – with the suggestions by the remote control
Switch on the device to which you want to set the RC2. Standby is not sufficient!

MOD

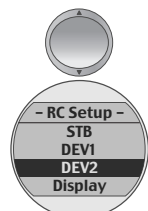
Press the **MOD** button with the display on. The Mode menu is displayed.

Mark >RC Setup< with the rocker.



SET

Press the **SET** button to call the RC settings.



SET

Call the Setup menu of the appropriate device with the **SET** button.

Mark "Step and set" with the rocker.



SET

Press the **SET** button to show the input menu for DEV1 and DEV2.

Enter the type of device here:
1 = DVD (DVD player)
2 = VCR (video recorder)
3 = STB (Set Top Box)

This setting is not necessary in VCR, DVD and STB.



SET

Press the **SET** button to accept the input.



You see the Setup menu with the device type and the currently set code in the last line of the menu.

Hold the remote control pointed towards the device you want to switch over to. Watch the device. If it switches off to standby when you press **SET**, you have found the right code.

SET

Keep "Step" marked and press the **SET** button. Now an infrared command is sent. Wait a moment for the reaction of the device.

If nothing happens, press the **SET** button again (a new code is sent every time you press **SET**) until the device switches to standby.



SET



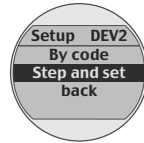
SET

When this happens, mark "accept" with the rocker.



SET

Accept with the **SET** button. The Setup menu is displayed again. Mark "back" with the rocker and press the **SET** button. You will see the Mode menu with the equipment selection again. Mark the device to be operated.

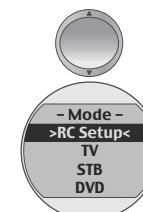


Hide/show HMM menu items in the TV menu

The HMM menu items can be activated for selection as of RC software 2.x. Since this set is equipped with the Digital Recorder, the online module cannot be retrofitted so that these functions are not required.

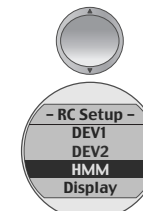
MOD

Press the **MOD** button with the display on. The Mode menu is displayed. Mark >RC Setup< with the rocker.



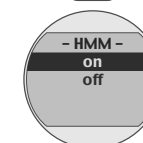
SET

Press the **SET** button to call the RC settings.



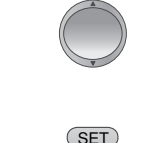
SET

Call the menu with the **SET** button.



SET

Mark "on" with the rocker to have the HMM menu item displayed or "off" to hide it.



SET

Confirm the selection with the **SET** button. You will see the RC Setup menu again.

MOD

Exit the menu with the **MOD** button. You will see the Mode menu again with the equipment selection.

What to do when...

Problem	Possible cause	Remedy
Various menu items cannot be called (shown in gray) or the menus for the EPG and teletext modes of operation cannot be called	"Simplified control" activated in main information	Deactivate "Simplified control" in the main information. Press the INFO -button, select "Select control level" and call with OK . Set the "Simplified control" to "no".
Timer recording, Change timer and Clear timer are not shown in the Video menu	No video recorder logged in	Log in VCR in the TV menu – Connections.
"Connections" cannot be called in the Video menu (shown in gray)	a) A timer recording is currently in progress b) You are recording from the TV set with the video bar	a) Wait until the timer recording has ended or clear the timer b) Wait until you stop recording
The "Stations" item in the TV menu and the "Autom. channel search" item in the main information cannot be called	The child lock is activated. If these menus were accessible, children could still set the programs.	Deactivate program-related child lock: Switch off child lock or enter PIN in the TV menu – Settings.
Control of the Loewe VCR with the video control bar and the timer does not work or does not work properly	a) The VCR's Digital Link function is not activated or not possible b) Euro-AV cable not connected c) Video recorder not logged in	a) Activate Digital Link in the VCR (see operating instructions of the VCR) b) Connect the Euro-AV cable c) Log in the VCR
General problems with connecting external devices through an AV input	a) The device is not logged in in the "Connections" menu or is connected differently to shown in the connection diagram b) The AV norm is set incorrectly c) The AV signal is set incorrectly	a) Compare the connection diagram with the actual installation in the "Main information" under "Connections" and connect as shown if necessary b) Set the correct norm c) Set the correct AV signal If "Automatic" is set for AV norm or AV signal, this can lead to wrong detection in the case of non-standardized signals. In this case the norm and signal must be set according to the operating instructions of the external device.
Picture shifted horizontally	The TV set is in the Southern hemisphere (e.g. Australia, South Africa)	Set the horizontal position: a) Call the main information with INFO b) Call Index – Set picture – Horizontal displacement c) Set horizontal picture position

What to do when...

Problem	Possible cause	Remedy
Connection of a decoder does not work or does not work properly	<ul style="list-style-type: none"> a) The signal is not decoded because the correct decoder programs have not been selected in the TV menu – Connections b) The sound is missing in decoder mode because the wrong decoder sound is allocated in the TV menu – Connections 	<ul style="list-style-type: none"> a) Follow the instructions in the TV menu – Connections again and select the appropriate decoder programs b) Follow the instructions in the TV menu – Connections again and select the right sound source (decoder, TV or Autom.), see instructions of the decoder
No sound through the TV loudspeakers	<ul style="list-style-type: none"> a) The item "Sound from..." in the Sound menu under "Sound" is not set to "TV" b) Nothing is inserted in the 9-pole cube socket on the back of the set 	<ul style="list-style-type: none"> a) Change the setting to "TV" b) Either a dummy plug with bridges, Loewe Concertos, the transmitter for the home automation or a subwoofer must be plugged into the cubic socket
All menus appear in the wrong language	The wrong menu language has been set	<p>Set your menu language:</p> <ol style="list-style-type: none"> 1. Switch off picture-in-picture (PIP) and switch off all on-screen displays (END button) 2. Call the TV menu (MENU button) 3. Select the last menu item and press OK 4. Select the last menu item on the last page and press the OK button 5. Now select the right language and... 6. ...confirm with OK
Digital Link Plus does not work	<ul style="list-style-type: none"> a) The VCR has not been logged in as a Digital Link Plus device or has been connected to the wrong socket b) The Euro-AV cable is not fully wired (Pin 10 not wired) c) Some video recorders can only take over the stations from the TV in initial installation d) All or some terrestrial or cable stations are stored at station slots ≥ 99 	<ul style="list-style-type: none"> a) Log in the Digital Link Plus VCR under "Connections" and connect according to the diagram b) Change the Euro-AV cable c) Reinstate the original state (ex-factory) of the VCR (see operating instructions of the VCR) d) Sort the terrestrial and cable stations so that they are between 1 and 99
Various characters are displayed incorrectly in teletext	The wrong character set is set in the teletext menu	Set the right character set: Teletext menu – Settings – Character set – Standard or the appropriate character set.

Technical data

Mechanical data

Articos 32 HD/DR+	Part number 63450.42
Dimensions (cm)	86x67,5x57,5 (wxhxd)
Weight (kg)	64
Picture tube	Real Flat-Line HD
Format	16:9
Screen size	81 cm, visible 76 cm

Electrical data

Chassis name	Media Plus (Q2550H)
Image refresh frequency	PAL/SECAM 100 Hz
	PAL 60/NTSC 60 Hz proscan
Full Digital 100	AMD/DMI/DMM/DNC
Power supply	220V up to 240V/50–60Hz
Power consumption	in operation approx.170 Watt
	Standby <2 Watt
	Sat-Record-Mode <60 Watt
Ambient temperature	5° – 40° Celsius
Tuner VHF/UHF/ cable	
(Hyperband 8 MHz)	42 MHz – 860 MHz
Station memory*	220/with DVB: 1470
TV norms	B/G, I, D/K, L, L', M, N
Color norms	PAL, SECAM,
	NTSC, NTSC 4.43
Sound norm	FM, AM, Nicam
	mono/stereo/2-sound
Audio rated output	2 x 15 Watt / 4 Ohm
Audio music output	2 x 40 Watt / 4 Ohm
Teletext	HiText (Level 2.5)

Connections

Mini-DIN (Front)	Video IN	Y/C (S-VHS/Hi8)
Cinch (Front)	Video IN	CVBS (VHS/8mm)
Cinch (Front)	Audio IN	L+R
Jack 6.3 mm (Front)	headphones	32–200 Ohm
IEC sockets	75 Ohm	antenna/cable/DVB-T*
F-socket	75 Ohm*	SAT and SAT A/D
AV 1	Video IN/OUT	Y/C (S-VHS/Hi8)
	Video IN/OUT	CVBS (VHS/8mm)
	Audio IN/OUT	L+R
AV 2	Video IN/OUT**	Y/C (S-VHS/Hi8)
	Video IN/OUT	CVBS (VHS/8mm)
	Video IN	RGB
	Audio IN/OUT	L+R
AV 3	Video IN	Y/C (S-VHS/Hi8)
	Video IN/OUT***	CVBS (VHS/8mm)
	Video IN	RGB or YUV
	Audio IN/OUT***	L+R
Cinch	Audio OUT	level adjustable/fixed
Jack 3,5 mm	Audio IN	L+R
Jack 3,5 mm		IR-Link OUT
Jack 2,5 mm*		RC5/RC6 OUT
D-Sub 15-pole*		VGA IN
9-pole cube socket		home automation or
		Loewe active loudspeaker system
Mini-DIN 8-pole*		Service/audio system (L-link)
Cinch*	Centre OUT	Centre Signal
Cinch*	Subwoofer OUT	LFE Signal
Cinch*	Surround OUT	L+R
Cinch	Dig. Audio IN 1	Multichannel Signal
Cinch	Dig. Audio IN 2	Multichannel Signal
Cinch	Dig. Audio OUT	Multichannel Signal

* depending on equipment and type of set or retrofittable

** OUT only in Digital Link Plus video recorders

*** OUT monitoring picture and sound

Accessories available

Racks

Ask your dealer, he will be able to offer you the right rack from the Loewe range to suit your TV set.

Motor Unit

A table turning foot for your Articos which can be rotated by $\pm 40^\circ$. Turning is implemented with the remote control.

Loewe audio systems and active loudspeaker systems

A combination of a Loewe TV set, a Loewe audio system and a Loewe loudspeaker system provides an excellently adapted Home Cinema system with the advantages of high operating comfort, matching design and adapted technology.

Home automation

Control of light switches, dimmers, blinds etc. with the TV menu.

RC1 Remote control

Bi-directional system remote control to operate all Loewe products, such as TVs, VCRs, DVDs and audio systems.

Single-/Twin-Sat-Tuner und Digital-TV Decoder (satellite or terrestrial)

Your TV set can be retrofitted with the integrated SAT-6 or TWIN-SAT 6 and a digital TV decoder.

Connecting both components allows reception of analog and digital satellite programs. With the Digital-TV upgrade kit 1 Sat/Twin-Sat all uncoded digital programs can be received. The Digital-TV upgrade kit 2 Sat/Twin-Sat-CI P suitable for Premiere is also available and the Digital-TV upgrade kit 2 T-CI for terrestrial digital TV programs (probably available from Nov. 2003).

Dolby Digital Decoder

For multichannel playback from DVD players in Dolby Digital cinema quality. A Dolby Digital is integrated.

VGA connection upgrade for a PC

This transforms your TV set into a VGA monitor.

Loewe Video Recorders

Loewe video recorders are specially adapted in design, user guidance and technical characteristics to Loewe TV sets with the result that daily handling of the equipment is made much simpler.

Loewe DVD-Players

The DVD-Players from Loewe are characterised by form and colour which match Loewe TV sets, adapted user guidance and technology. A combination of the two devices forms a system which offers many advantages.

Service addresses

Australia

International Dynamics Australasia Pty Ltd.
129 Palmer Street
AUS - Richmond, Victoria 3121
Tel. 03-94 29 08 22
Fax 03-94 29 08 33

Austria

Robert Bosch AG
Postfach 146
A-1011 Wien
Tel. 01-79 72 24 500
Fax 01-79 72 24 599

Benelux

Loewe Opta Benelux NV/SA
Uilenbaan 84
B-2160 Antwerpen
Tel. 0902-88 00 2
Tel. 03-270 99 30
Fax 03-271 01 08
Loewe Opta Nederland B.V.
Ravenswade, 54A1
NL-3439 LD Nieuwegein (Utrecht)
Tel. 0900-20 20 180
Fax 030-280 33 27

CIS

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ul. Verkhnyaya Maslovka, d. 29
RUS-125083 Moscow
Tel. 095-212 50 43, 956 67 64
Fax 095-212 47 10

Cyprus

L&M Eurappliances Ltd
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Tel. 02-42 05 10
Fax 02-42 87 70

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TIPA sdružení
Dolní nám. 9
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Tel: 0553-62 49 44
Fax: 0553-62 31 47

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Vestre Stationsvej 9
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Fax 0661-354 10

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11 rue de la Durance
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Tel. 03-88 79 72 50
Fax 03-88 79 72 59

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Loewe Opta GmbH
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Industriestraße 11
D-96317 Kronach
Tel. 09261-990
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Linn Products Limited
PO Box 8465
Prestwick
UK - KA 7 2YF
Tel. 01292-47 15 52
Fax 01292-47 15 54

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SOUND HELLAS S.A.
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GR-54642 Thessaloniki
Tel. 2310-856 100
Fax 2310-856 300

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H-2040 Budaörs
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Fax 023-415 182

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ISR-Tel Aviv 67213
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Fax 03-62 40 303

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Fax 055-88 81 543

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Flamingo Complex
Cannon Road
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Tel. 49 71 82
Fax 44 59 83

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SOMARA S.A.
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MA-20000 Casablanca
Tel. 02-22 20 308
Fax 02-22 60 006

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CableCom AS
Østre Kullerød 5
N-3214 Sandefjord
Tel. 033-48 33 48
Fax 033-44 60 44

Poland

Piotech
ul. Boh. Getta Warszawskiego 18
PL-81-609 Gdynia
Tel./Fax 058-62 43 467 / 058-62 45 009

Portugal

Videoacustica
Comercio e Representacoes de
Equipamentos Electronicos S.A.
Estrada Circunvalacao
Quinta do Paizinho, Arm. 5
P-2795-632 Camaxide
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Fax 21-41 88 093

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Tel. 057-310 441
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P.O. Box 757
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Fax 011-44 76 662

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E-28022 Madrid
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Fax 91-329 06 71

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Amalia Jönssons Gata 19
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Tel. 031-70 93 760
Fax 031-47 65 15

Switzerland

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Rütistrasse 26
CH-8952 Schlieren
Tel. 01-732 15 11
Fax 01-730 15 02


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Alemdag Cad: Site Yolu No.: 10
Ümraniye/ İstanbul
Tel. 0216-523 15 94/96
Fax 0216-523 16 58

Printed in Germany

2/01.04/5,0

Subject to modification.

 The code number 3001 cancels out a secret code and with it the child lock. Please keep it in a safe place.

Codelist

Loewe										Cybercom	0774	H&B	0818	0713
DEV1	4	-	1451							CyberHome	0714	Hanseatic	0741	
DEV2	4	-	1451							Cytron	0716 0651 0705	Harman/Kardon	0702	
DVD	1	-	0539							Daewoo	0770 0705 0832 0833 0714	HCM	0788	
STB	3	-	1127							Daewoo International	0699	HDT	0705	
VCR	2	-	0866							Dalton	0770 0747 0783	HE	0730	
DVD (Typ 1)										Dansai	0770 0747 0783	Henß	0713	
3DLAB	0539									Dantax	0723	Himage	0825	0518
A-Trend	0714									DEC	0699 0818	Hitachi	0664 0665 0573	
Acoustic Solutions	0730									Decca	0770	Hiteker	0672	
AEG	0788 0770									Denon	0490 0634	Hoher	0774	
Afreedy	0698									Denver	0699 0788	Home Electronics	0730	
Aiwa	0641 0695									Denzel	0665	Hoyo	0743	
Akai	0790 0788 0766 0690 0716 0713									Diamond	0651 0768 0723	Hyundai	0783	
										Digihome	0713	Ingelen	0788	
										digiRED	0717	ISP	0695	
AKI	0718 0780									Digitrex	0672 0795	JBL	0702	
Akira	0699									DiK	0774	Jeken	0699	
Alba	0717 0699 0713 0723 0695									Dinamic	0788	Jindian	0799	
All-Tel	0790 0712									DiViDo	0705	JMB	0695	
Amitech	0770									DK digital	0774	Jocel	0780	
Amoisonic	0764									DMTECH	0783	JVC	0623 0558 0539 0503 1901	
Amstrad	0713									Dragon	0774	Karcher	0783	
Ansonic	0774 0759									Dual	0665 0651 0713 0730 0783 0790	Kendo	0699	
Apex Digital	0672 0799										0774	Kenwood	0534 0490 0737	
Audiosonic	0690									DVX	0518	Kiirö	0718 0770 0780	
Auvio	0843									E-Boda	0723	King DHome	0799	
AWA	0730									Eclipse	0723	Kiss	0665	
Black Diamond	0766 0713									Elin	0770	Koda	0818	
Blaupunkt	0717									Elta	0690 0770 0788 0790	Konka	0711	
Blue Sky	0699 0695 0713 0672 0843									Eltax	0766	Koss	0651	
Boman	0783									Emerson	0591 0705	Labway	0709 0531	
Brain Wave	0770									Encore	0698	Lasonic	0743	
Brandt	0651									Enzer	0665 0701	Lawson	0705 0716 0768	
Bush	0699 0690 0689 0717 0713 0516									Ferguson	0651	Lecson	0696 0747	
	0811 0774 0818 0695 0723									Finlux	0741 0770 0783	Lenco	0699 0774 0651 0770 0818	
C-Tech	0768									Firstline	0799	Lenoxx	0819 0690	
Cambridge Audio	0696									Funai	0695	Lexia	0699	
Cambridge Soundworks	0696									GE	0717	LG	0591 0741	
CAT	0699 0786 0789 0787									Global Solutions	0768	Lifetec	0651 0774	
Celestial	0672									Global Sphere	0768	Limit	0716 0768	
Centrex	0672									Go Video	0783	Loewe	0539 0511	
Centrum	0713 0789									GoldStar	0591 0741	LogicLab	0768	
cineULTRA	0699									Goodmans	0651 0790 0690 0783 0723	Logix	0705 0783	
Classic	0730										0818	Lumatron	0705	
Clatronic	0788									Graetz	0665	Luxman	0573	
Clayton	0713									Grandin	0716	Magnavox	0503 0818	
Coby	0730									Grundig	0539 0695 0651 0775 0705 0790	Magnex	0723	
Conia	0672										0701 0713 0670 0723	Manhattan	0705	
Crown	0770 0769 0651 0690									Grunkel	0770	Marantz	0539	

Matsui	0651	0695	Provision	0699	Synn	0768
Maxim		0825	Radionette	0741	Tatung	0770 0771
MBO	0690	0730	Raite	0665	Teac	0717 0741 0571 0516 0692 0591
MDS		0699	Rank Arena	0780 0718		0768 0759 0790
Mediencom		0746	RCA	0769 0651	Technics	0490 1908 1910
Medion	0651 0774 0783	0716	REC	0689 0766 0490 0746	Technika	0770
Memorex		0774	Red Star	0759 0748 0763 0770 0788	Techwood	0713
Metz	0571 0525	0713	Reoc	0768 0752	Tensai	0690 0651
MiCO		0723	Revoy	0699	TerraTec	0825
Microboss		0718	Roadstar	0699 0690 0689 0713 0818	Tevion	0651 0768
Micromaxx		0695	Rotel	0623 0558	Theta Digital	0571
Micromedia	0503	0539	Rowa	0759	Thomson	0551
Micromega		0539	Saba	0651 0769	Tokai	0665 0698 0788
Microstar		0774	Sabaki	0768	Tokaido	0698
Minato		0752	Saivod	0759	Tokiwa	0705 0716
Minax		0713	Salora	0741	Tongtel	0764
Minoka		0770	Sampo	0698 0752	Toshiba	0503
Minowa		0712	Samsung	0573 0744 0490	Trex	0799
Mitsubishi	0713	0521	Sansui	0695 0716 0768 0723 0770	Umax	0531 0690
Monyka		0665	Sanyo	0670 0695 0790	United	0788 0730 0790
Mustek		0730	Scan	0705	Universum	0741 0713 0591
Mx Onda	0651	0723	ScanMagic	0730	Venturer	0790
NAD	0741	0692	Schaub Lorenz	0788 0770	Vieta	0705
Naiko		0770	Schneider	0651 0783 0705 0790 0788	Voxson	0774 0730
Neufunk		0665	Schwaiger	0752	Walkvision	0717
Nordmende		0774	Scientific Labs	0768	Welkin	0774
Noriko		0752	Scott	0718 0780 0651 0672	Wesder	0699
NU-TEC		0516	SEG	0665 0713 0768	Wharfedale	0686 0696 0698 0723 0752
Okano		0752	Shanghai	0672	Windy Sam	0573
Omni	0698 0746 0690	0699	Sharp	0630 0752 0695	XLogic	0770 0768
Onkyo	0627 0503 0612	1612	Sherwood	0717 0741 0633	XMS	0788 0689
Optim		0747	Shinco	0717	Xoro	0806
Optimus	0571	0525	Silva	0788	Xwave	0709 0531
Orion		0695	SilvaSchneider	0774	Yamaha	0490 0539 0646
Oritron		0651	Singer	0690 0716 0723	Yamakawa	0665 0710 0765
P&B		0818	Skymaster	0730 0768	Yelo	0718 0780
Pacific	0768 0790 0759 0774	0713	Skyworth	0766	Yukai	0730
Palladium		0695	Slim Art	0770	Zenith	0503 0591 0741
Palsonic		0689 0672	SM Electronic	0730 0768 0690		
Panasonic	0490 1908	1910	Smart	0718 0705 0713		
Panda		0783	SMC	0811	VCR (Typ 2)	
Philips	0539 0646	0503	Sonashi	0716	Accuphase	0637
Phonotrend		0699	Sony	0533 1533 0573 1903 1904	Adyson	0072
Pioneer	0571 0525	0631	Soundmaster	0768	Aiwa	0307 0000 0348 0352 0037 0041
Pointer		0770	Soundwave	0783	Akai	0106 0315 0041 0020 0352 0240
Powerpoint	0780	0718	Standard	0651 0768	Akiba	0072
Prima		0766	Starmedia	0818	Akura	0072 0041
Prima Electronic		0766	Sunwood	0788	Alba	0278 0072 0352 0020 0000 0315
Proline	0651 0686 0672	0790	Supervision	0730 0768	Allorgan	0348 0081
Prosonic		0699	SVA	0672	Allstar	0322 0081

Ambassador					0020	Elbe				0278	0038	Hornophone							0081	
Amstrad		0000	0278	0072		Elcatech					0072	Hypson			0072	0278	0352			
Anitech				0072	0322	Elin					0240	Impego							0020	
Ansonic					0000	Elsay					0072	Imperial				0000	0240			
Aristona					0081	Elta				0072	0278	Ingersoll							0240	
ASA					0037	0081	Emerson			0072	0045	0000	Inno Hit	0020	0240	0278	0322	0072		
Asuka	0072	0037	0081	0000	0038	ESC				0278	0240	0020	Interbuy				0037	0072		
Audiosonic					0278	Etzuko						0072	Interfunk				0081	0104		
Audioton					0020	Europhon						0020	Internal				0278	0637		
AVP					0352	0000	Fenner					0020	International				0278	0037		
AWA		0037	0278	0642	0043	Ferguson	0041	0320	0321	0493	0000	0278	Intervision		0000	0278	0037	0348		
Baird	0106	0278	0104	0041	0000	Fidelity					0000	0072	0240	Irradio			0072	0037	0081	
Bang & Olufsen					0499	Finlandia	0104	0081	0042	0166	0000	0048	ITT 0106	0041	0046	0344	0384	0104	0240	
Basic Line			0278	0020	0072						0384	0007	ITT Nokia						0048	
Bestar				0278	0020	Finlux			0000	0081	0104	0042	0105	ITV			0278	0037	0020	
Black Diamond				0642	0278	Firstline	0072	0348	0043	0037	0045	0042	JMB						0352	
Black Panther					0278							0278	Joyce						0000	
Blaupunkt 1562	0226	0162	1162	0081	0006	Fisher		0047	0104	0046	0038	0020	JVC		0041	0067	0008	0384		
					0195	0034	Frontech				0020	0322	0072	Kaisui					0072	
Blue Sky	0037	0348	0072	0352	0278	0000	Fujitsu					0000	Karcher						0278	
Bondstec					0020	0072	Funai					0000	Kendo		0106	0315	0348	0072	0037	
Brandt			0041	0320	0321	0493	Galaxi					0000	Kenwood			0041	0038	0046		
Brandt Electronique					0041		Galaxis					0278	KIC						0000	
Brinkmann					0348		GBC					0020	Kimari						0047	
Brionvega					0344		GE					0320	Kneissel			0352	0348	0037		
Bush	0072	0278	0315	0352	0000	0348	GEC					0081	Kolster						0348	
						0081	General					0020	Korpel						0072	
Carena					0081		General Technic					0348	Kuba						0047	
Carrefour					0045		Genexxa					0104	Kuba Electronic						0047	
Casio					0000		Goldhand					0072	Kuwa				0226	1162		
Cathay					0278		GoldStar				0037	0000	Kyoto						0072	
Catron					0020		Goodmans		0000	0072	0240	0278	0037	Lenco					0278	
CGE					0041	0000		0020	0081	0348	0637	0352	0642	Leyco					0072	
Cimline					0072		Graetz			0041	0104	0240	0344	LG			0037	0000	0278	
Clatronic				0020	0072	0000	Granada	0104	0046	0048	0081	0006	0240	Lifetec					0348	
Combitech					0352				0037	0226	0042	1162	0000	Loewe	0081	1562	1162	0162	0226	0866
Condor					0020	0278	Grandin		0072	0037	0020	0000	0278				0006	0037	0105	0080
Crown			0278	0072	0020	0322	Grundig	0007	0195	0081	0347	0349	0226	Logik				0240	0072	0106
Cyrus					0081			0006	0320	0348	0072	0080	1162	Lumatron						0278
Daewoo	0278	0642	0637	0348	0352	0045	Haaz						0348	Luxor	0106	0046	0043	0072	0104	0047
						0020	Hanimex						0352							0048
Dansai					0072	0278	Hanseatic			0037	0278	0081	0038	Magnavox						0081
Daytron						0278	Hantor						0020	Manesth			0072	0045	0081	
de Graaf	0042	0166	0081	0104	0048	0046	Harwood						0072	Marantz	0080	0081	0038	0006	0146	
Decca	0000	0041	0081	0008	0067	0348	HCM					0072	0322	Mark					0278	0020
Deitron						0278	Hinari	0072	0352	0041	0322	0278	0240	Marquant						0322
Denko						0072	Hisawa						0352	Matsui	0348	0037	0240	0352	0000	
Diamant					0037		Hischito						0045	Mediator						0081
Dual		0041	0081	0278	0000		Hitachi	0042	0166	0105	0041	0000	0240	Medion				0348	0352	
Dumont		0000	0081	0104	0105						0081	0104	0384	Meletronic			0000	0037	0038	

Memorex	0104	0000	0046	0037	0048	0047	Protech		0081	Sonolor		0048	0046
Memphis						0072	Provision		0278	Sontec		0037	0278
Metz	1562	0195	0347	1162	0081	0162	Pye		0081	Sony	0033 0034 0032	0106	1032
				0226	0006	0037	Quasar		0278	Soundwave		0037	0348
Micormay						0348	Quelle	0006 0081 0344	0080	Ssangyong			0072
Migros						0000	Radialva	0037 0072 0081	0048	Standard			0278
Minerva					0195	0006	Radiola		0081	Starlite		0037	0104
Mitsubishi			0043	0067	0081		Rank		0041	Stern			0278
Multitec						0037	Reoc		0348 0637	Sunkai		0348	0278
Multitech	0000	0072	0020	0104	0322		Rex		0041 0384	Sunstar			0000
Murphy						0000	RFT		0020 0072	Suntronic			0000
Myryad						0081	Roadstar	0240 0072	0037 0278	Sunwood			0072
NAD						0104	Royal		0322 0072	Supra		0037	0240
National			1562	1162	0226	0162	Saba	0041 0320 0321	0384 0494	Symphonic		0000	0072
NEC	0041	0038	0067	0104	0037				0278	T+A	1162 0226	0162	
Neckermann		0041	0006	0081	0344		Saisho		0348	Tandberg			0278
Nesco			0072	0000	0352		Salora	0046 0043 0106	0104	Tashiko	0000 0048 0240	0081	0037
Nikkai			0020	0072	0278		Samsung		0240 0432	Tatung	0000 0041 0081	0048 0043	0348
Nokia	0104	0106	0315	0041	0278	0046	Samurai		0020				0352
		0344	0240	0048	0042	0081	Sansui	0041 0067 0106	0072 0322 0348	Teac	0072 0041 0000	0278 0642	0037
Nordmende			0041	0384	0320	0321	Sanyo	0104 0046	0047 0048 0067			0081	0307
				0494	0067	0493	Saville		0352 0278 0240	TEC		0020 0278	0072
NU-TEC						0348	SBR		0081 0146 0080	Tech Line			0072
Oceanic	0000	0048	0106	0081	0104	0041	Scan Sonic		0240	TechniSat			0348
						0046	Schaub Lorenz	0041 0344 0104	0000 0106	Teleavia		0041	0493
Okano		0315	0348	0072	0322	0278			0315	Telefunken	0041 0320 0321	0384	
Orbit						0072	Schneider	0072 0000 0037	0081 0278 0240			0493 0494	0278
Orion				0352	0348				0146 0042	Teletech	0322 0072 0278	0000	
Orson						0000	Seaway		0278	Tempest			0020
Osaki				0000	0037	0072	SEG	0072 0240 0322	0278 0642 0081	Tenosal			0072
Osume						0072	SEI		0081	Tensai	0000 0322	0037	0072
Otto Versand					0081	0080	Sei-Sinudyne		0081	Tevion			0348
Palladium	0072	0315	0037	0041	0006	0240	Seleco	0041 0008 0384	0020 0037	Thomson	0320 0722 0321	0041 0067	0384
					0348	0432	Sentra		0072 0020			0493 0494	0278
Palsonic					0072	0000	Setron		0072	Thorn		0041 0104	0037
Panasonic	1562	1162	0162	0226	0836		Sharp		0048 0037 0569	Thorn-Ferguson			0320
Pathe Cinema						0043	Shintom		0072 0104	Tokai	0072 0037 0041	0104	
Pathe Marconi						0041	Shivaki		0037	Tokiwa			0072
Perdio						0000	Siemens	0195 0006 0037	0104 0007 0081	Topline			0348
Philco				0038	0072				0146 0320 0347	Toshiba	0045 0041 0384	0043 0081	
Philips	0081	0146	0006	0384	0080		Siera		0081	Towada		0322	0072
Phonola					0081	0080	Silva		0037	Tracton			0020
Pioneer			0067	0081	0042		Silver		0278	Trakton			0020
Portland			0020	0278	0637		Singer		0045	Tredex			0278
Prinz						0000	Sinudyne		0081	TVA			0020
Profex						0322	Smaragd		0348	Uher	0037 0240	0344	
Profitronic					0081	0240	Solavox		0020	Ultravox		0344	0278
Proline			0000	0320	0321		Sonitron		0047	Unitech			0240
Proscoc						0278	Sonneclair		0072	United Quick Star			0278
Prosonic				0278	0000		Sonoko		0278				

Universum	0000	0081	0240	0037	0106	Cyrus				0200	Hanseatic				1099	1100
	0348	0195	0006	0322	0104	D-box		1127	1114	0873	HDT					1011
Victor				0008	0067	Daewoo				1201	Hirschmann	0882	1113	1111	0173	0573
VideoPro					0020	Delfa				0863					1085	0299 0501
Watson		0081	0352	0278	0642	Deltasat				1075	HTS					0775
Weltblick					0037	Digenius			0299	1161	Humax		1176	0283	0863	1048
Wharfedale					0615	Digipro				1105	Huth			1143	1017	1075
White Westinghouse					0344	DigiQuest			1164	0863	Hyundai			1011	1159	1075
Yamaha					0041	DigiSat				0585	ID Digital			1176	0283	0863
Yamishi				0072	0278	Distratel			0885	1205	Ingelen					0882
Yokan					0072	Distrisat				0200	Interstar			1105	1017	1214
Yoko		0037	0072	0020	0240	DMT				1075	Invideo					0871
Zenith					0637	DNT				0200	Italtel					0871
SAT (STB – Typ 3)						Echostar	0610	1169	0871	0167	0853	1086	ITT Nokia			0573 0873
								1200	0775	0511	0453	JVC				0571
ABsat			0832	0123	1323	Einhell					0501	KaTelco				1111
ADB					0642	Elap				1129	0587	Kathrein	0658	0249	1057 1058	0173 1221
Adcom					0200	Elta					0200				0200 0123	0115 1323
Akai					0200	Emme Esse					0871	Kathrein Eurostar				0115
Allsat				0200	1017	eMTech					1214	Kreiling				0658 0249
Alpha					0200	Engel				1017	1103	Kreismeyer				0173
Amstrad	0847	0882	0885	0863	0501 1048	Eurieu				0885	0882	LaSAT				0115 0299
					1113	Europa			0863	0501	0200	Lenco				0115
AntSat					1017 1083	Europhon					0299	Lenson				0501
Arcon					1205 1075	Eurosky			0299	0115	0501	Lexus				0200
Armstrong					0200	Eurostar				1121	0115	LG				1075
Asat					0200	Fidelity					0501	Lifesat				0299
AssCom					0853	Finlux					0573	Lifetec				0587
Aston				1129	1261	Force			1194	1101	0179	Logix				1017 1075
Astrastar					0548	Fortec Star				1017	1083	Lorenzen				0299 1161
Astro	0133	0173	0501	0658	0548 1113	Foxtel			0879	1176	0283	Luxor			0573 0873	0501
				1099	1100 0200	Fraba					0585	Macab				0179
Atlanta					0871	Fraba Sat					0585	Manhattan				1083 1017
Aurora					0879	Fracarro					0871	Marantz				0200
Austar		0863	0642	0879	0283 1176	FreeCom				0501	0173	Mascom				0811
Axis					1111	Freesat				0882	0587	Maspro			0750 0173	0571
Bentley Walker					1017	FTEmaximal				0811	1121 0863	Matsui				0571 0173
Blaupunkt					0173	Fuba		0173	0573	0115	1161 0299	Mediabox				0292 0853
Blue Sky					0885	Fugionkyo					1105	Mediacom				1206
Boca					0240	Galaxis	1111	1101	0863	0283	1176 0853	MediaSat			0501 0292	0853
BskyB				0847	1175					0115	0270 0879	MediaStar				1173
Cambridge					0501 0179	Garnet					1075	Medion				0299
Canal Satellite					0853 0292	GbSAT					1214	Mega				0200
Canal+					0853 0292	GOD Digital					0200	Metronic			1216 0885	1210 1205
Cherokee					0123 1323	Goldbox				0292	0853	Metz				0173
Chess					1085	Goldvision					1017	Micro				0501
CityCom			1176	0115	0283 0299	Gooding					0571	Micromaxx				0299
Clark					0811	Grundig	0173	0847	1150	0571	0139 0750	Micronik				1003
Conrad				0573	0115 0501			0805	0879	0885	0853 0501	Minerva				0571

